PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Young-Bo CHO	11/02/2009
Seong-Hyeon CHAE	11/02/2009
Jae-Hee CHO	11/02/2009
Hee-Won KANG	11/02/2009
Chang-Yoon OH	11/02/2009
Byung-Wook JUN	11/02/2009

RECEIVING PARTY DATA

Name:	Samsung Electronics Co. Ltd.	
Street Address:	416, Maetan-dong, Yeongtong-gu	
City:	Suwon-si, Gyeonggi-do	
State/Country:	KOREA, REPUBLIC OF	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12613019

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 0202-0304

NAME OF SUBMITTER: George C. Eckert

PATENT

REEL: 023476 FRAME: 0753

OP \$40.00 12613019

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Total Attachments: 4

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> PATENT REEL: 023476 FRAME: 0754

Form **PTO-1595** (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008)

RECORDATION FORM COVER SHEET PATENTS ONLY					
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.					
1. Name of conveying party(ies) 1) Young-Bo CHO, 2) Seong-Hyeon CHAE, 3) Jae-Hee CHO, 4) Hee-Won KANG, 5) Chang-Yoon OH, and 6) Byung-Wook JUN	2. Name and address of receiving party(ies) Name: Samsung Electronics Co., Ltd. Internal Address:				
Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance/Execution Date(s): Execution Date(s) November 2, 2009 Assignment Merger Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other 4. Application or patent number(s): A. Patent Application No.(s) 12/613,019	Street Address: _416, Maetan-dong, Yeongtong-gu City: _Suwon-si, Gyeonggi-do State: Country: _Republic of KoreaZip: Additional name(s) & address(es) attached?YesNo document is being filed together with a new application. B. Patent No.(s)				
	ached? Yes No				
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: One				
Name: Jefferson IP Law, LLP Internal Address: George Eckert	7. Total fee (37 CFR 1.21(h) & 3.41) \$ Authorized to be charged by credit card Authorized to be charged to deposit account				
Street Address: 1130 Connecticut Ave., NW, Suite 420	Enclosed None required (government interest not affecting title)				
City: Washington	8. Payment Information a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number Authorized User Name				
State: DC Zip:20036					
Phone Number: 202-293-0804 Fax Number: 202-403-3587 Email Address: usdocketing@jeffersonip.com					
9. Signature: /George C. ECKERT/ Reg. No Signature George C. Eckert Name of Person Signing	November 5, 2009 Date Total number of pages including cover sheet, attachments, and documents: 4				

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

Attorney Docket No.: 0202-0304 Client Docket No.: SP9258-US

<u>Assignment</u>

WHEREAS, the following inventors, namely 1) Young-Bo CHO, 2) Seong-Hyeon CHAE, 3) Jae-Hee CHO, 4) Hee-Won KANG, 5) Chang-Yoon OH, and 6) Byung-Wook JUN, all citizens of the Republic of Korea and residing respectfully at 1) #222-1506, Sibeomdanji Woosung APT, Seohyeon-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea, 2) #402-901, Kkachi Maeul Sunkyoung APT, Gumi-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea, 3) #102-1002, Yeoksam Lucky APT, Dogok-dong, Gangnam-gu, Seoul, Republic of Korea, 4) #201-1801, Hansol Maeul LG APT, Jeongja-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea, 5) #1001-301, Bangjuk Maeul Yeongtong Tranchae APT, Mangpo-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea, and 6) #123-302, Samsung Raemian APT, Munjeong 1-dong, Songpa-gu, Seoul, Republic of Korea (hereinafter called "Assignors"), having made or discovered certain new, useful and non-obvious improvements in an invention having a working title of:

APPARATUS AND METHOD FOR TRANSMITTING/RECEIVING SYSTEM INFORMATION IN A WIRELESS COMMUNICATION SYSTEM WITH HIERARCHICAL CELL STRUCTURE,

for which a United States Patent Application is being filed concurrently herewith or, if not being concurrently filed, was filed on Nov. 5, 2009, and assigned Serial No. 12/613, 019; and,

WHEREAS, Samsung Electronics Co., Ltd., a corporation duly organized under the laws of the Republic of Korea, located and doing business at 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of Korea (hereinafter called "Assignee"), is desirous of acquiring the entire right, title and interest therein;

NOW, THEREFORE, BE IT KNOWN that for and in good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors do hereby sell, assign and transfer unto said Assignee the entire and exclusive worldwide right, title and interest in and to all said inventions and discoveries disclosed in said application, and in and to said application, any and all substitutions, divisions, provisionals, conversions of provisionals and continuations thereof, and in and to all Letters Patent, United States and foreign, that may be granted for said inventions and discoveries, and in and to all extensions, renewals and reissues thereof; and the right to file any foreign application and/or claim priority under the provisions of any international treaty or convention arising from this application or any divisional, continuing, substitute or reissue application therefrom. The aforesaid assignment includes the right in and to all income, royalties, damages and payments, now or hereafter due or payable with respect to any Letters Patent which may be granted, and in and to all causes of action (either in law or in equity), and the right to sue, counterclaim, and recover for past, present and future infringement of the rights assigned or to be assigned under this Assignment, as fully and entirely as the same would have been held and enjoyed by Assignors if this sale, assignment and transfer had not been made.

Assignors covenant and agree, without further compensation to said Assignors but at Assignee's expense:

a. to execute:

- all papers to be used in connection with this application and any divisional, continuing, substitute or reissue application thereof, as the Assignee may deem necessary or expedient, and
- all papers in connection with any interference, litigation, mediation, arbitration or other proceeding relating to this application or any divisional, continuing, substitute or reissue application thereof, as may be necessary or expedient;

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REEL: 023476 FRAME: 0756

Attorney Docket No.: 0202-0304 Client Docket No.: SP9258-US

> to cooperate with the Assignee in every way possible in obtaining evidence and going forward in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof;

> to communicate to the Assignee any facts relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof, including evidence for any interference, litigation, mediation, arbitration or other proceeding relating to

said invention, whenever requested;

 to testify in any interference, litigation, mediation, arbitration or other proceeding relating to said invention, said application and any divisional, continuing, substitute or reissue application thereof whenever requested; and

e. to perform all other affirmative acts which may be necessary or desirable to secure full and complete protection of the inventions and discoveries or that may be necessary or desirable to vest in Assignee the complete title to the inventions and discoveries and Letters Patent hereby conveyed and to enable Assignee to record title.

Assignors hereby authorize and request the United States Patent and Trademark Office or any other issuing authority to issue any and all Letters Patent that may be granted upon this invention and/or this application or any divisional, continuing, substitute or reissue application thereof to the Assignee, its legal representatives, successors and assigns.

Assignors each hereby represent, covenant and warrant that he or she has the full right to convey the entire right, title and interest by this instrument, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

The provisions of this Assignment are binding upon each Assignor's heirs, legal representatives and/or administrators and assigns.

Assignors hereby grant to the law firm of Jefferson IP Law, LLP of Washington, DC and its attorneys and agents as associated with Customer No. 68103 the authority and power to insert on this instrument any further identification which may be necessary or desirable for purposes of recordation in the United States Patent and Trademark Office or a Patent Office of any foreign country.

Signature of First Inventor:	Tough do	Movember 2,2009
Signature of Second Inventor:	Seong Leon Chal Seong-Hyeon CHAE	November 2, zov°
Signature of Third Inventor:	Jae-Hee CHO	November Z, Zoví
Signature of Fourth Inventor:	Hee-Work ANG	November 2, 2006

Signature of Sixth Inventor:

Signat

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